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› Knifel 540GPH Submersible Water Pump AT-2000 Instruction Manual

Knifel AT-2000

Knifel 540GPH Submersible Water Pump

INSTRUCTION MANUAL - MODEL AT-2000

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Knifel 540GPH Submersible Water Pump, Model AT-2000. This pump is designed for various water features including fountains, hydroponics systems, ponds, and aquariums. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: Knifel 540GPH Submersible Water Pump with included accessories.

2. Safety Information

Always observe the following safety precautions to reduce the risk of injury, electric shock, or damage to the pump:

- Ensure the power supply voltage matches the pump's specifications (110 Volts).
- Do not operate the pump if the power cord or plug is damaged.
- Never handle the pump with wet hands or while standing in water.
- Always disconnect the power supply before performing any maintenance, installation, or cleaning.
- This pump is designed for submersible use only. Do not operate it dry, as this can cause damage. The pump features an auto-power-off function to prevent dry burning.
- Keep children and pets away from the pump and water feature during operation.
- Do not use the pump for flammable or corrosive liquids.

3. Package Contents

Verify that all items are present in the package:

- 1 x Knifel 540GPH Submersible Water Pump

- 3 x Nozzle Adapters (various sizes)

4. Specifications



Figure 2: Pump dimensions and nozzle adapter sizes.

Feature	Specification
Brand	Knifel
Model Number	AT-2000
Maximum Flow Rate	540 GPH (2000 Liters Per Hour)
Maximum Lifting Height	6 Feet
Wattage	35 Watts
Voltage	110 Volts

Feature	Specification
Power Source	Corded Electric
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions (L x W x H)	4.4" x 2.7" x 3.2"
Item Weight	2.07 pounds
Specific Uses	Aquarium, Fountain, Pond, Water Garden

5. Setup

1. **Attach Nozzle:** Select the appropriate nozzle adapter for your application and securely attach it to the pump's outlet. Ensure a tight fit to prevent leaks.
2. **Connect Tubing:** Connect your desired tubing (not included) to the attached nozzle adapter.
3. **Position Pump:** Place the pump completely submerged in water. The pump features strong suction cups on its base to secure it to a clean, smooth surface at the bottom of your water feature. Ensure the pump is stable and cannot tip over.
4. **Check Water Level:** Ensure the water level is sufficient to fully submerge the pump. Operating the pump dry can cause damage, though the auto-power-off feature provides protection.
5. **Connect Power:** Plug the pump's power cord into a grounded electrical outlet.

6. Operating Instructions



Figure 3: Adjustable water flow and pump performance.

- **Power On:** Once plugged in and submerged, the pump will begin operating.
- **Adjust Flow Rate:** The pump is equipped with an adjustable knob to control the water flow. Rotate the knob to increase or decrease the flow rate to suit your specific needs.
- **Auto-Power-Off System:** This pump features an integrated auto-power-off function. If the water level drops too low and the pump is no longer adequately submerged, it will automatically shut off to prevent dry burning and extend its service life. The pump will automatically restart once sufficient water is added.
- **Quiet Operation:** The pump is designed for ultra-quiet operation, producing minimal noise during use.

Compare with Other Pumps

Ours



- ✓ 1. Water Flow Adjustable
- ✓ 2. AUTO Power OFF
- ✓ 3. Stable 3-Pin plugs
- ✓ 4. Foam Filter
- ✓ 5. Pure Copper Movement

Others



- ✓ 1. Water Flow Adjustable
- ✗ 2. No AUTO Power OFF
- ✗ 3. 2-Pin plugs
- ✗ 4. No Filter
- ✗ 5. Copper-clad aluminum movement

Figure 4: Illustration of the Auto-Power-Off System.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your pump.

ULTRA-QUIET



USING ADVANCED
TECHNOLOGY NOISE
REDUCE 30%



The voice of
conversation
50-60db



Knifel Pump
30-40db

- High quality rotor



Sound of ticking
20-40db



Blossom of flower
10db

Figure 5: Detachable design for easy cleaning.

1. **Disconnect Power:** Always unplug the pump from the power outlet before any maintenance.
2. **Disassembly:** The pump features a detachable design, allowing for easy disassembly without tools. Carefully separate the components, including the front cover and impeller housing.
3. **Clean Foam Filter:** The pump includes a foam filter to block debris. Remove the foam filter and rinse it thoroughly under clean water. If heavily soiled or damaged, replace the filter.
4. **Clean Impeller:** Remove the impeller and clean any debris, algae, or mineral deposits from the impeller and its housing. A small brush can be helpful.
5. **Reassembly:** Reassemble the pump components, ensuring all parts are correctly seated and secured.
6. **Frequency:** The frequency of cleaning depends on the water quality and usage. For best performance, inspect and clean the pump regularly, especially if you notice a decrease in flow rate.

8. Troubleshooting

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not start or operate.	No power supply. Pump is not submerged. Impeller is jammed. Auto-power-off activated.	Check power connection. Ensure pump is fully submerged. Disconnect power, clean impeller. Add water to the feature.
Low water flow.	Clogged filter or impeller. Flow rate knob set too low. Kinked or obstructed tubing. Insufficient water level.	Disconnect power, clean filter and impeller. Adjust the flow rate knob to a higher setting. Check and clear any obstructions in the tubing. Ensure adequate water level.
Pump is noisy.	Debris in impeller. Pump not stable. Water level too low.	Disconnect power, clean impeller. Ensure suction cups are securely attached. Add water to the feature.
Pump stops intermittently.	Water level too low (auto-power-off). Overheating due to debris.	Maintain adequate water level. Disconnect power, clean pump thoroughly.

9. Warranty and Support

This Knifel submersible water pump comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use conditions.

If you encounter any issues during the use of your pump or have questions not addressed in this manual, please contact Knifel customer support directly. Please have your purchase information and model number (AT-2000) ready when contacting support.